

```

//-----
//
// jump_timepos
//
// Description: Perform a absolute or relative jump in a file
//
// Parameters: fh filehandle to access the current files Filedescriptor
//             mode DVR_JUMP_FROM_CURRENT_POS, DVR_JUMP_FROM_START, DVR_JUMP_FROM_END
//             offset the amount of 0.01 seconds to jump
//             curtime current time position in the file, used in relative jumps.
//
// Returns: DVR_Code
//-----
static DVR_Code jump_timepos(int fh, int mode, long offtime, long curtime)
{
    long seconds;
    long sectors, deltasectors;
    float rectime;
    long content;
    long sectorsPerSecond;
    ulong i = 0;
    DVR_Code ret = DVR_OK;
    NMFS_Code seek_ret = NMFS_OK;

    if (mode == DVR_JUMP_FROM_CURRENT_POS)
        offtime = curtime + offtime;
    else if (mode == DVR_JUMP_FROM_END)
        offtime = FileDesc(fh).rectime + offtime;
    seconds = offtime / 100;

    // make seconds out of the time position
    // (rounded downwards)

    // set the type of content in the file that we want to check on.
    content = (DVR_CONTENT_VIDEO | DVR_CONTENT_AUDIO);
    #define deltatime (long)((float)seconds * 100 - (float)PlayHeaderBuf[HEADER_REC_TIME] + (float)
    FileDesc(fh).starttime) / 100

    rectime = FileDesc(fh).rectime/100;
    if (rectime == 0)
        sectorsPerSecond = (HasVideo(fh) ? 900 : 25); // no playing time available; just pick some

```



```
    }  
    return(ret);  
}  
  
/* Explanations  
The function 'seek_F_NMFS()' repositions the files read pointer according to the arguments.
```

## APPENDIX

Included below is the function 'dvrGetHeader()'. It is used to get the nearest header in the file at the current file position. In this header, which occurs approximately 20 times per second in the file, there is a timestamp. The timestamps are produced at recording time, and have a resolution of 1/100 seconds.

```
//-----
//
// dvrGetHeader
//
// Description: Read last data header from given file handle
//
// Parameters:   fh      filehandle
//              pBuffer pointer to an Header buffer array
//              type   type of header to seek for.
//
// Returns:      NMFS_Code
//-----
static NMFS_Code dvrGetHeader(FileHandle fh, ulong *pBuf, ulong position, ulong type)
{
    NMFS_Code error_code;
    ulong    current_pos;

    if((error_code = seek_f_NMFS(fh, (uchar)position, 0, &current_pos)) != NMFS_OK)
        return(error_code);

    do {
        if((error_code = read_f_NMFS(fh, 1, (uchar*) pBuffer)) != 1)
            return(error_code < 0 ? error_code : NMFS_END_OF_FILE);
        if(position == NMFS_SEEK_FROM_END) {
            seek_f_NMFS(fh, NMFS_SEEK_RELATIVE, -2, NULL);
        }
        while( !((*pBuf == DISKID_HEADER) && (*(pBuf+1) & type)) );

        error_code = seek_f_NMFS(fh, NMFS_SEEK_FROM_START, current_pos, NULL); // reset old position

        return error_code;
    }
    */
```